ECE 530 Cloud Computing

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Introduction to Cloud Computing

Objectives

• Students completing this module will be able to explain the motivation behind cloud computing, how it is used today, the development of I/O systems and the history of cyberinfrastructure.

What is the Cloud

 "There is no such thing as 'the cloud,' it's just somebody else's computer"

Is it important?

Table 1. Worldwide Public Cloud Service Revenue Forecast (Billions of U.S. Dollars)

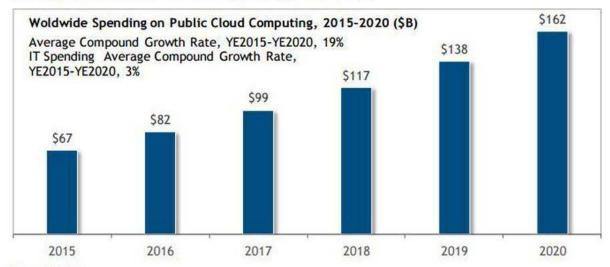
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	2017	2018	2019	2020	2021	
Cloud Business Process Services (BPaaS)	42.6	46.4	50.1	54.1	58.4	
	42.0	40.4	30.1	04.1	30.4	
Cloud Application Infrastructure Services (PaaS)	11.9	15.0	18.6	22.7	27.3	
Cloud Application Services (SaaS)	60.2	73.6	87.2	101.9	117.1	
Cloud Management and Security Services	8.7	10.5	12.3	14.1	16.1	
Cloud System Infrastructure Services						
(laaS)	30.0	40.8	52.9	67.4	83.5	
Total Market	153.5	186.4	221.1	260.2	302.5	

BPaaS = business process as a service; laaS = infrastructure as a service; PaaS = platform as a service; SaaS = software as a service

Note: Totals may not add up due to rounding.

Source: Gartner (April 2017)

The Rapid Growth of Cloud Computing, 2015-2020



Source: IDC, 2016

 Forbes: Cloud computing is projected to increase from \$67B in 2015 to \$162B in 2020 attaining a CAGR of 19%